

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530607

Luminaire Tested: **GALN-SA5D-750-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-750-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25622 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

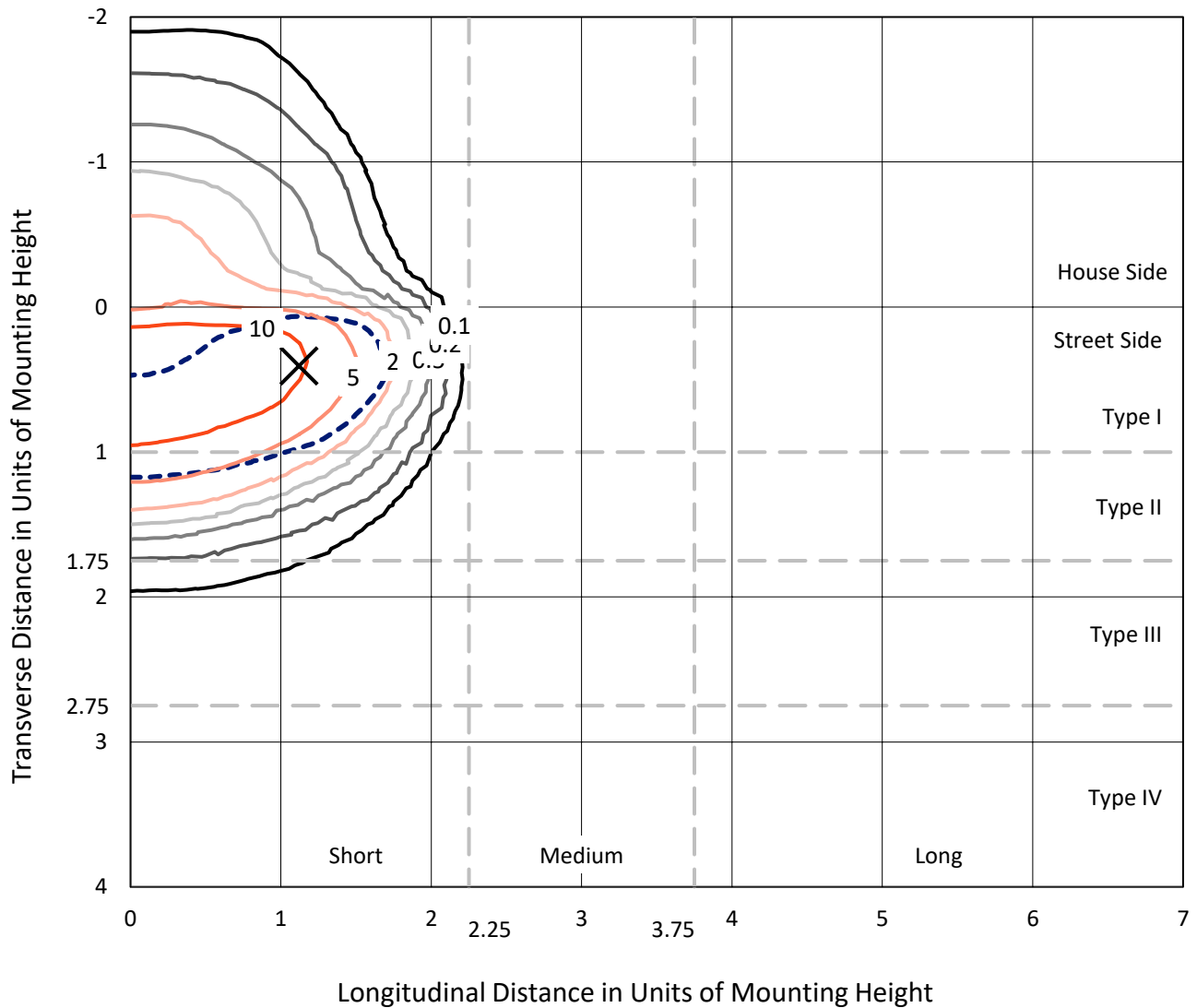
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

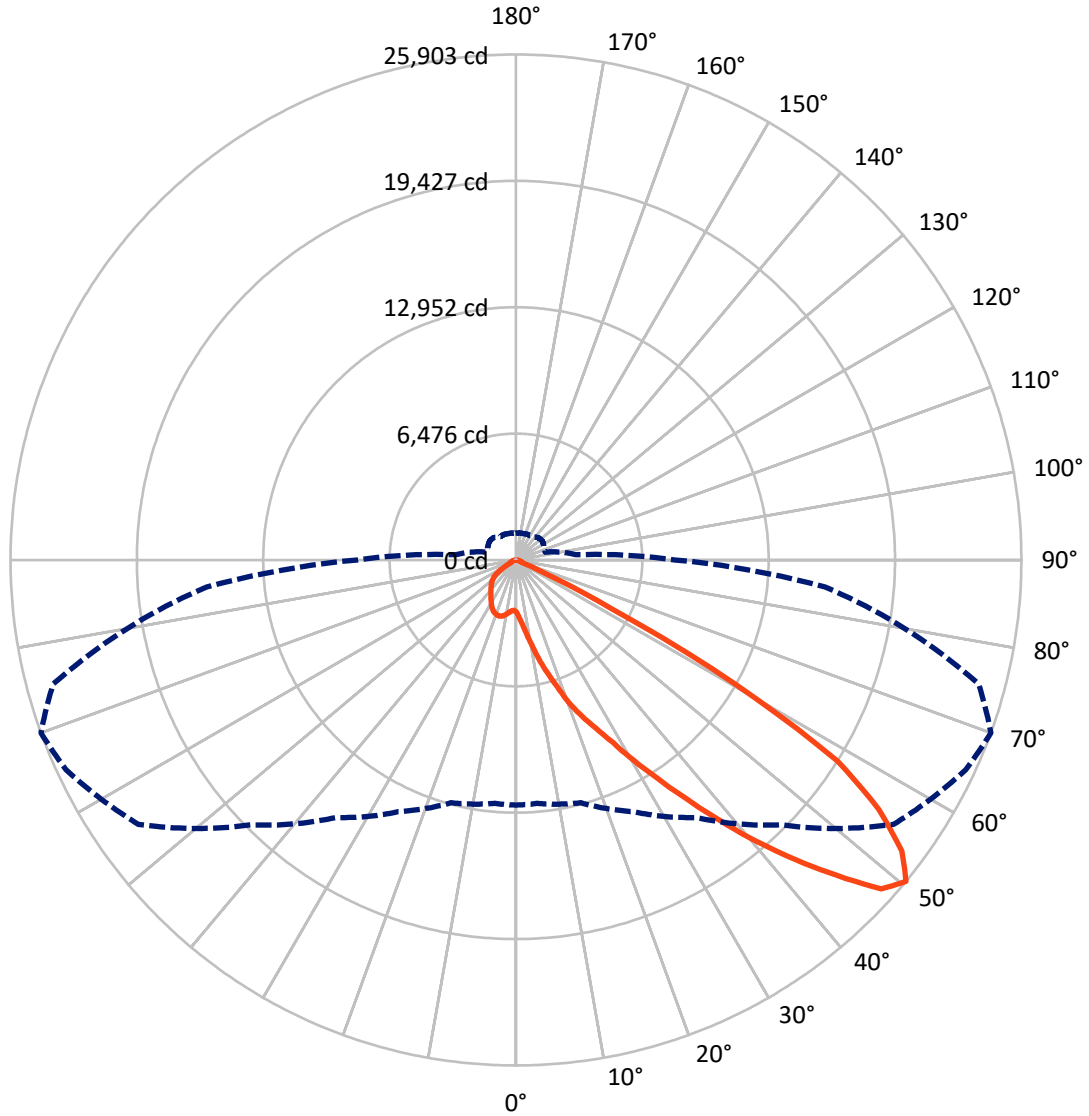
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3578.3	0.0	3578.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22043.7	0.0	22043.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	25622.0	0.0	25622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.1	1.3
10°-20°	1492.8	5.8
20°-30°	3131.7	12.2
30°-40°	5398.0	21.1
40°-50°	7889.1	30.8
50°-60°	6144.3	24.0
60°-70°	1041.0	4.1
70°-80°	143.0	0.6
80°-90°	37.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25622.0	100.0
0°-180°	25622.0	100.0

Coefficient of Utilization



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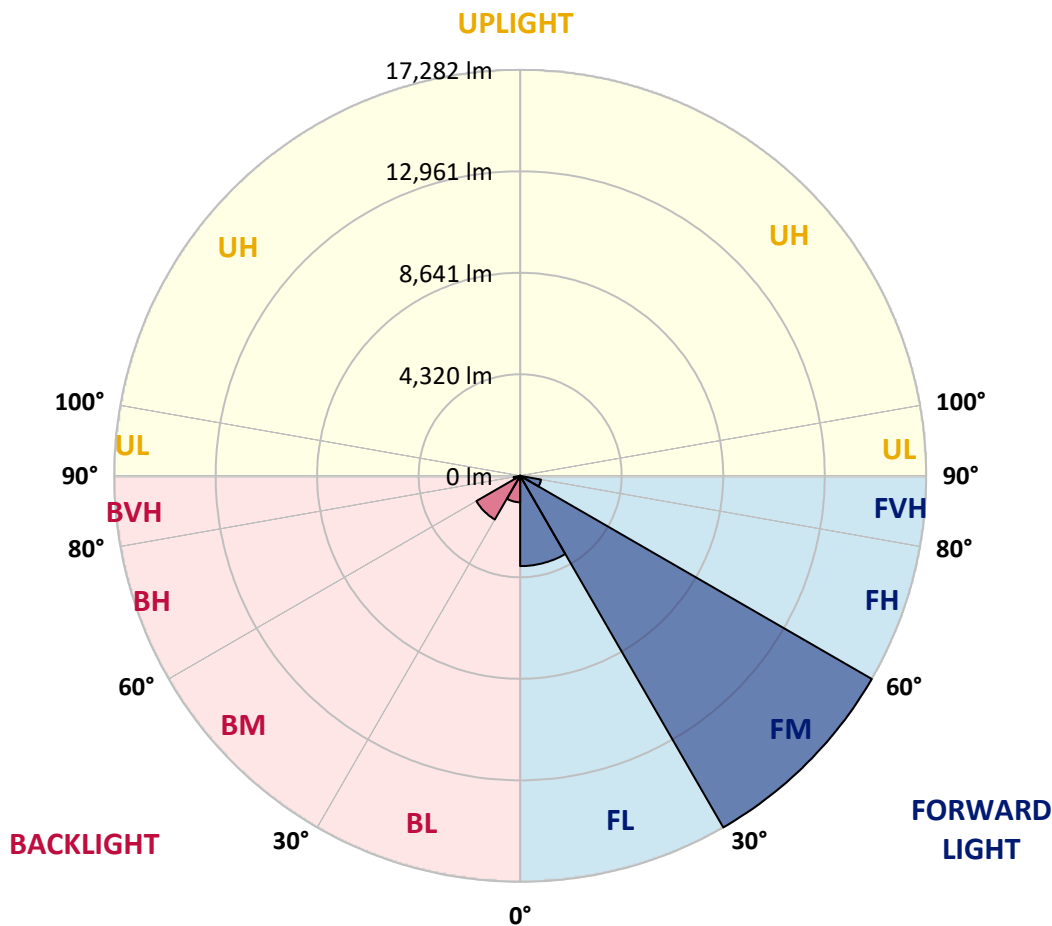
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3843.6	15.0			
FM (30°-60°)	17281.6	67.4			
FH (60°-80°)	901.4	3.5			G1/1800
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	1126.0	4.4	B3/2500		
BM (30°-60°)	2149.7	8.4	B2/2500		
BH (60°-80°)	282.7	1.1	B1/500		G1/500
BVH (80°-90°)	19.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9
2.5°	3475.4	3450.1	3395.4	3294.2	3252.1	3151.0	3092.0	2978.3	2906.7	2826.7	2738.2
5°	4895.0	4764.4	4684.4	4570.7	4237.9	4031.5	3690.2	3399.6	3264.8	3117.3	2915.1
7.5°	6361.0	6276.8	6167.2	5922.9	5695.4	5265.7	4680.2	4039.9	3766.1	3513.3	3113.1
10°	7574.2	7338.3	7325.7	7144.6	6896.0	6382.1	5678.6	4882.4	4393.7	4023.0	3395.4
12.5°	8421.0	8206.1	8303.0	8282.0	8050.3	7578.5	6765.4	5712.3	5202.6	4625.4	3686.0
15°	9191.9	9103.4	9073.9	9048.7	8956.0	8606.3	7877.6	6723.3	5986.1	5291.0	4014.6
17.5°	9945.9	9718.5	9828.0	9849.0	9840.6	9524.7	8842.2	7683.8	6816.0	5994.5	4360.0
20°	10615.7	10636.8	10489.4	10459.9	10434.6	10422.0	9756.4	8635.8	7835.4	6731.7	4810.8
22.5°	11475.1	11327.7	11458.3	11374.0	11209.7	11108.6	10598.9	9478.3	8720.1	7620.6	5270.0
25°	12490.3	12608.3	12300.8	12267.1	12085.9	11736.3	11277.1	10422.0	9571.0	8446.3	5767.0
27.5°	13741.5	13535.1	13455.0	13269.7	12941.1	12793.7	12254.4	11395.1	10598.9	9314.0	6247.3
30°	14815.7	14760.9	14360.7	14141.7	13855.2	13851.0	13097.0	12713.6	11938.5	10674.7	6908.7
32.5°	15691.9	15451.8	15304.4	15152.7	14921.0	14984.2	14348.1	14145.9	13366.6	11938.5	7688.0
35°	16277.5	16104.7	16016.3	15784.6	15717.2	15999.4	15734.0	15649.8	15009.5	13716.2	8602.1
37.5°	16462.8	16517.6	16500.7	16210.1	16353.3	17115.8	17457.0	17237.9	16900.9	15590.8	9592.1
40°	16627.1	16665.0	16580.8	16922.0	17330.6	18198.4	19432.7	19070.4	18944.0	17490.7	10969.6
42.5°	16719.8	16690.3	16690.3	17280.1	17899.3	19643.3	21341.0	21100.9	21004.0	19512.7	12562.0
45°	16319.6	16033.1	16340.7	17141.0	18388.0	20355.3	22866.0	23198.8	23059.7	21918.1	14423.9
47.5°	14824.1	15001.0	15173.8	16243.8	17794.0	20136.2	23801.2	24934.3	25191.3	23940.2	15645.6
50°	12562.0	12524.0	12882.1	14230.1	16113.2	19192.6	23620.0	25435.6	25903.2	24546.8	15902.5
52.5°	9137.1	9415.1	9802.7	11142.3	13375.0	16749.3	21282.0	24142.4	24765.8	23801.2	15734.0
55°	5320.5	5013.0	5885.0	7018.2	9124.5	12633.6	17992.0	21400.0	22554.2	22444.7	14883.1
57.5°	2131.6	2064.2	2363.3	3184.7	4760.2	7831.2	13084.3	17583.4	19432.7	20557.5	13080.1
60°	935.2	914.1	1074.2	1297.5	1946.2	3610.2	7157.2	10935.9	12865.3	14364.9	9002.3
62.5°	674.0	665.6	745.6	825.7	1027.9	1571.3	3007.8	4406.4	5493.2	6634.8	4031.5
65°	543.4	564.5	619.3	661.4	758.3	872.0	1061.6	1225.9	1503.9	1558.7	888.9
67.5°	442.3	459.2	509.7	556.1	572.9	471.8	488.7	429.7	429.7	383.3	307.5
70°	324.4	328.6	387.6	442.3	353.9	189.6	332.8	332.8	299.1	286.5	261.2
72.5°	240.1	244.3	290.7	273.8	139.0	118.0	244.3	269.6	244.3	231.7	210.6
75°	176.9	181.1	151.7	63.2	59.0	75.8	143.2	185.4	176.9	172.7	160.1
77.5°	33.7	25.3	21.1	29.5	42.1	63.2	92.7	113.7	118.0	126.4	118.0
80°	4.2	4.2	12.6	25.3	46.3	67.4	96.9	109.5	113.7	118.0	109.5
82.5°	0.0	4.2	12.6	25.3	46.3	63.2	84.3	96.9	105.3	109.5	105.3
85°	0.0	4.2	8.4	21.1	37.9	46.3	42.1	29.5	25.3	29.5	21.1
87.5°	0.0	0.0	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9
2.5°	2687.6	2670.8	2611.8	2548.6	2493.9	2519.1	2493.9	2472.8	2481.2	2472.8	2464.4
5°	2835.1	2759.2	2632.9	2578.1	2531.8	2527.6	2514.9	2510.7	2514.9	2514.9	2477.0
7.5°	2974.1	2851.9	2717.1	2658.1	2603.4	2607.6	2578.1	2578.1	2573.9	2552.8	2544.4
10°	3184.7	3020.4	2847.7	2742.4	2675.0	2662.4	2632.9	2603.4	2603.4	2603.4	2561.3
12.5°	3416.4	3210.0	2974.1	2851.9	2771.9	2708.7	2662.4	2653.9	2607.6	2599.2	2578.1
15°	3618.6	3357.4	3058.3	2889.8	2788.7	2704.5	2632.9	2586.5	2565.5	2552.8	2536.0
17.5°	3816.6	3483.8	3104.7	2889.8	2780.3	2683.4	2607.6	2565.5	2514.9	2523.3	2489.6
20°	4082.0	3618.6	3117.3	2835.1	2700.3	2607.6	2506.5	2485.4	2455.9	2430.7	2439.1
22.5°	4339.0	3715.5	3079.4	2767.7	2573.9	2464.4	2413.8	2388.5	2375.9	2354.8	2325.4
25°	4570.7	3820.8	3020.4	2645.5	2439.1	2359.1	2312.7	2308.5	2279.0	2279.0	2224.3
27.5°	4806.6	3858.7	2919.3	2502.3	2321.1	2274.8	2253.7	2245.3	2232.7	2203.2	2165.3
30°	5076.2	3871.4	2771.9	2354.8	2215.8	2165.3	2194.8	2215.8	2161.1	2106.3	2123.1
32.5°	5299.4	3841.9	2595.0	2215.8	2140.0	2114.7	2173.7	2194.8	2131.6	2072.6	2043.1
35°	5569.1	3770.3	2422.2	2106.3	2064.2	2114.7	2165.3	2165.3	2038.9	1967.3	1950.4
37.5°	5977.7	3690.2	2262.2	2013.6	1984.1	2089.4	2156.8	2110.5	1912.5	1824.1	1803.0
40°	6415.8	3639.7	2106.3	1920.9	1942.0	2047.3	2085.2	1942.0	1739.8	1685.0	1668.2
42.5°	7051.9	3538.6	1967.3	1840.9	1904.1	1988.3	1988.3	1731.4	1655.5	1626.1	1621.8
45°	7843.9	3467.0	1845.1	1773.5	1849.3	1870.4	1803.0	1621.8	1567.1	1558.7	1562.9
47.5°	8231.4	3327.9	1718.7	1693.5	1748.2	1752.4	1575.5	1533.4	1487.0	1474.4	1466.0
50°	8172.4	3079.4	1554.4	1588.1	1664.0	1621.8	1436.5	1444.9	1402.8	1398.6	1377.5
52.5°	7759.6	2687.6	1390.2	1470.2	1554.4	1432.3	1322.8	1314.3	1314.3	1259.6	1238.5
55°	6879.2	2165.3	1192.2	1293.3	1394.4	1204.8	1175.3	1166.9	1145.8	1095.3	1082.6
57.5°	5446.9	1588.1	897.3	1006.8	1183.7	1023.7	1019.4	981.5	926.8	888.9	888.9
60°	3239.5	914.1	564.5	615.0	783.5	829.9	922.6	905.7	813.0	754.1	737.2
62.5°	1478.6	471.8	358.1	366.5	421.3	539.2	724.6	838.3	707.7	606.6	598.2
65°	497.1	349.6	294.9	282.2	290.7	324.4	433.9	594.0	564.5	467.6	450.7
67.5°	303.3	311.7	278.0	257.0	257.0	252.8	248.5	269.6	332.8	324.4	328.6
70°	261.2	286.5	257.0	231.7	223.3	210.6	176.9	147.4	126.4	147.4	155.9
72.5°	210.6	227.5	219.1	198.0	176.9	160.1	126.4	96.9	71.6	63.2	63.2
75°	155.9	168.5	176.9	151.7	134.8	113.7	92.7	63.2	37.9	25.3	25.3
77.5°	113.7	126.4	130.6	118.0	101.1	80.0	59.0	42.1	21.1	8.4	8.4
80°	96.9	113.7	126.4	118.0	105.3	75.8	54.8	29.5	16.9	4.2	4.2
82.5°	92.7	113.7	126.4	113.7	101.1	71.6	54.8	33.7	12.6	4.2	4.2
85°	21.1	29.5	37.9	46.3	54.8	54.8	42.1	25.3	12.6	4.2	4.2
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	4.2	4.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)